

DRILL STEM TEST REPORT

Prepared For: **EOG Resources Inc**

3817 NW Expressway Ste 500 Oklahoma
City OK 73112

ATTN: Preston Heiskell

7 35 38W Stevens KS

Kirton 7 #1

Start Date: 2006.07.07 @ 11:35:22

End Date: 2006.07.08 @ 00:22:47

Job Ticket #: 24446 DST #: 1

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620



TRILOBITE TESTING, INC.

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EOG Resources Inc

Kirton 7 #1

3817 NW Expressway Ste 500 Oklahoma City OK 73112

7 35 38W Stevens KS

ATTN: Preston Heiskell

Job Ticket: 24446

DST#: 1

Test Start: 2006.07.07 @ 11:35:22

GENERAL INFORMATION:

Formation: **Morrow Sand**
 Deviated: **No** Whipstock: **ft (KB)**
 Time Tool Opened: 16:27:47
 Time Test Ended: 00:22:47

Test Type: Conventional Straddle
 Tester: Alex Brechbuhler Jr.
 Unit No: 20

Interval: **5938.00 ft (KB) To 6126.00 ft (KB) (TVD)**
 Total Depth: 6300.00 ft (KB) (TVD)
 Hole Diameter: 7.78 inches Hole Condition: Good

Reference Elevations: 3252.00 ft (KB)
 3241.00 ft (CF)
 KB to GR/CF: 11.00 ft

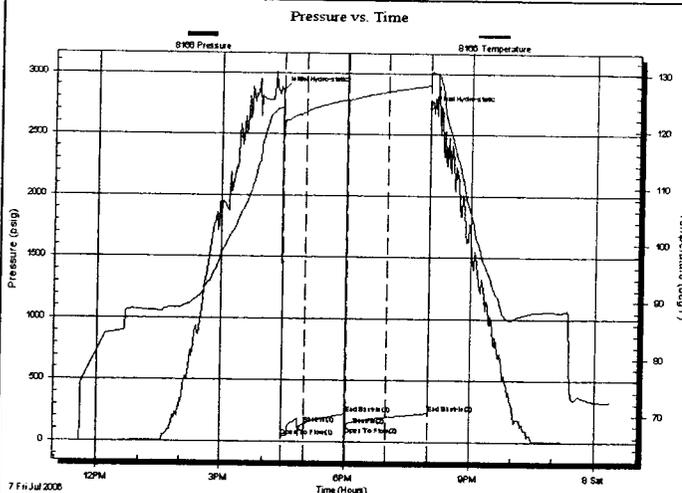
Serial #: 8166

Inside

Press@RunDepth: 200.20 psig @ 5943.00 ft (KB)
 Start Date: 2006.07.07 End Date: 2006.07.08
 Start Time: 11:35:22 End Time: 00:22:47

Capacity: 7000.00 psig
 Last Calib.: 1899.12.30
 Time On Btm: 2006.07.07 @ 16:27:02
 Time Off Btm: 2006.07.07 @ 20:01:01

TEST COMMENT: IF Weak 2 inch blow that died
 ISI No Blow back
 FF No Blow Flushed tool still no blow
 FSI No Blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2856.89	123.98	Initial Hydro-static
1	42.12	120.22	Open To Flow (1)
33	144.86	123.39	Shut-In (1)
94	227.92	125.62	End Shut-In (1)
95	56.67	125.46	Open To Flow (2)
153	200.20	127.00	Shut-In (2)
214	232.11	128.14	End Shut-In (2)
214	2707.96	130.35	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	100%M	0.15

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)



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TOOL DIAGRAM

EOG Resources Inc

Kirton 7 #1

3817 NW Expressway Ste 500 Oklahoma City OK
73112

7 35 38W Stevens KS

Job Ticket: 24446

DST#: 1

ATTN: Preston Heiskell

Test Start: 2006.07.07 @ 11:35:22

Tool Information

Drill Pipe:	Length: 5564.00 ft	Diameter: 2.38 inches	Volume: 30.62 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 365.00 ft	Diameter: 2.25 inches	Volume: 1.80 bbl	Weight to Pull Loose: 125000.0 lb
			<u>Total Volume: 32.42 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	21.00 ft			String Weight: Initial 110000.0 lb
Depth to Top Packer:	5938.00 ft			Final 115000.0 lb
Depth to Bottom Packer:	6122.00 ft			
Interval between Packers:	184.00 ft			
Tool Length:	392.00 ft			
Number of Packers:	3	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			5909.00	
Shut In Tool	5.00			5914.00	
Sampler	3.00			5917.00	
Hydraulic tool	5.00			5922.00	
Jars	5.00			5927.00	
Safety Joint	2.00			5929.00	
Packer	5.00			5934.00	30.00 Bottom Of Top Packer
Packer	4.00			5938.00	
Stubb	1.00			5939.00	
Perforations	3.00			5942.00	
Change Over Sub	1.00			5943.00	
Recorder	0.00	8166	Inside	5943.00	
Drill Pipe	157.00			6100.00	
Change Over Sub	1.00			6101.00	
Perforations	20.00			6121.00	
Recorder	0.00	10993	Inside	6121.00	
Blank Off Sub	1.00			6122.00	184.00 Tool Interval
Packer	4.00			6126.00	
Stubb	1.00			6127.00	
Perforations	11.00			6138.00	
Change Over Sub	1.00			6139.00	
Drill Pipe	156.00			6295.00	
Change Over Sub	1.00			6296.00	
Perforations	1.00			6297.00	
Recorder	0.00	13362	Outside	6297.00	
Bullnose	3.00			6300.00	178.00 Bottom Packers & Anchor
Total Tool Length:	392.00				



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FLUID SUMMARY

EOG Resources Inc

Kirton 7 #1

3817 NW Expressway Ste 500 Oklahoma City OK
73112

7 35 38W Stevens KS

Job Ticket: 24446

DST#: 1

ATTN: Preston Heiskell

Test Start: 2006.07.07 @ 11:35:22

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 47.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.59 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 1100.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	100%M	0.148

Total Length: 30.00 ft Total Volume: 0.148 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

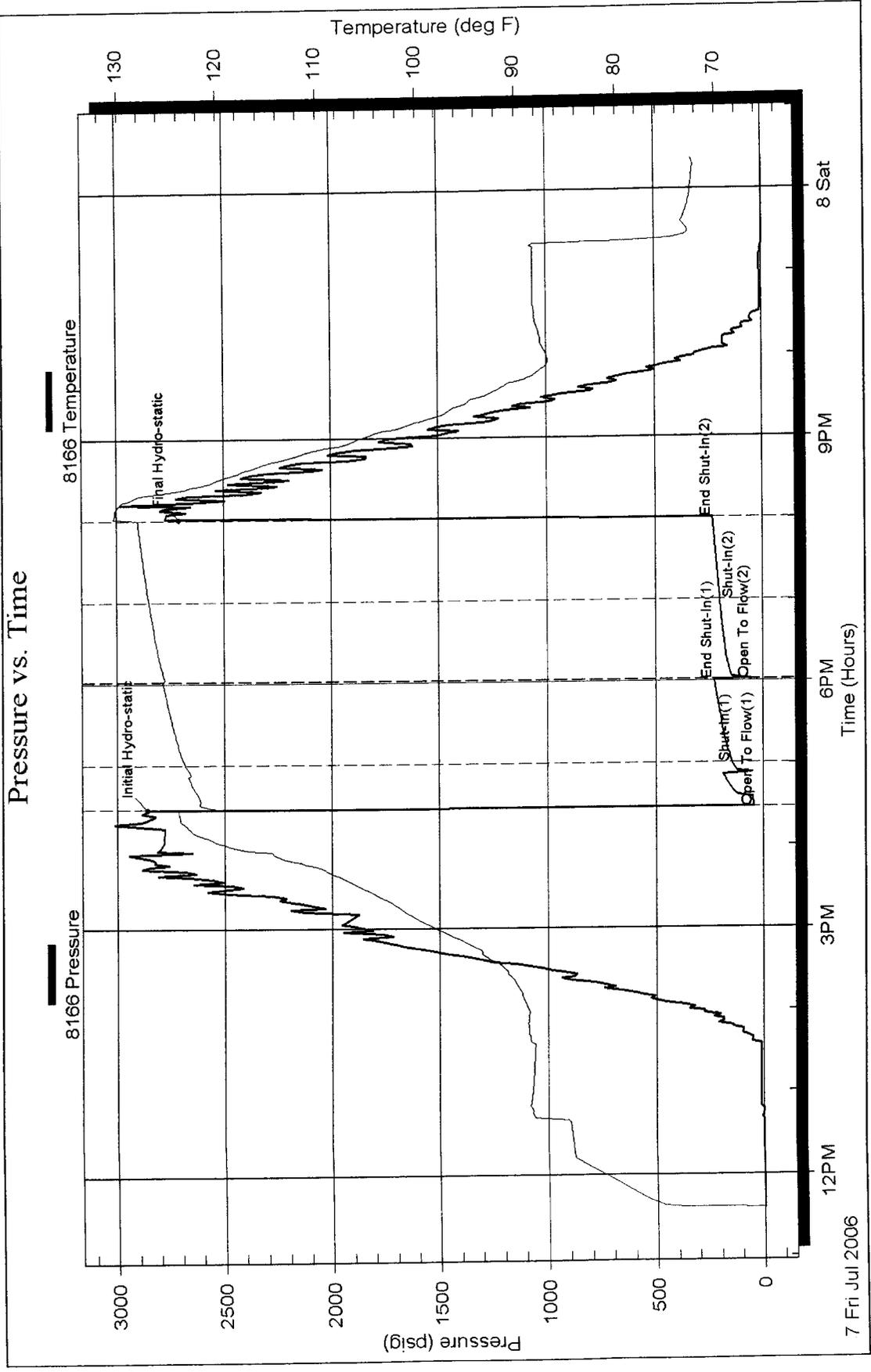
Serial #: 8166

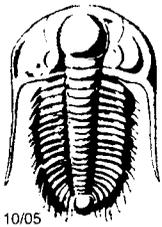
Inside

EOG Resources Inc

7 35 38W Stevens KS

DST Test Number: 1





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

8981

No 24446

Test Ticket

Well Name & No. Kirton 7 #1 Test No. 1 Date 07-07-06
 Company EOG Resources Inc Zone Tested Morrow Sand
 Address 3817 NW Expressway Suite 500 OKC, OK 73112 Elevation 3252 KB 3241 GL
 Co. Rep / Geo. Preston Heiskell Rig Abc. #2
 Location: Sec. 7 Twp. 35s Rge. 38w Co. Stevens State Ks
 Comment: _____ Release date / time: _____

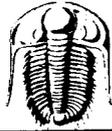
Interval Tested 5938 to 6126 Initial Str Wt./Lbs. 110K Unseated Str Wt./Lbs. 115K
 Anchor Length ~~188~~ 188 Wt. Set Lbs. 20K Wt. Pulled Loose/Lbs. 125K
 Top Packer Depth 5933 Tool Weight 2K
 Bottom Packer Depth 5938 Hole Size 7 7/8" ✓ Rubber Size 6 3/4" ✓
 Total Depth 6300 Wt. Pipe Run 0 Drill Collar Run _____
 Mud Wt. 8.9 LCM 18 Vis. 47 WL 7.6 Drill Pipe Size 4.5xH Ft. Run _____
 Blow Description IF - Weak 2 inch Blow that Diced
ISI - No Blowback
FF - No Blow, Flushed Tool still No Blow
FSL - No Blowback

Recovery - Total Feet 30 GIP 0 Ft. in DC 30 Ft. in DP 0
 Rec. 30 Feet of Mud %gas _____ %oil _____ %water 100 %mud _____
 Rec. _____ Feet of _____ %gas _____ %oil _____ %water _____ %mud _____
 Rec. _____ Feet of _____ %gas _____ %oil _____ %water _____ %mud _____
 Rec. _____ Feet of _____ %gas _____ %oil _____ %water _____ %mud _____
 Rec. _____ Feet of _____ %gas _____ %oil _____ %water _____ %mud _____
 BHT 128.14 °F Gravity _____ °API D @ _____ °F Corrected Gravity _____ °API
 RW _____ @ _____ °F Chlorides _____ ppm Recovery _____ Chlorides 1100 ppm System

(A) Initial Hydrostatic Mud	<u>2857</u> <u>2857</u> PSI	Recorder No.	<u>8166</u>	Test	<u>1300</u>
(B) First Initial Flow Pressure	<u>42</u> <u>400</u> PSI	(depth)	<u>5943</u>	Jars	<u>250</u>
(C) First Final Flow Pressure	<u>145</u> <u>1540</u> PSI	Recorder No.	<u>10993</u>	Safety Jt.	<u>75</u>
(D) Initial Shut-In Pressure	<u>228</u> <u>407</u> PSI	(depth)	<u>6121</u>	Circ Sub	_____
(E) Second Initial Flow Pressure	<u>57</u> <u>200</u> PSI	Recorder No.	<u>13362</u>	Sampler	<u>250</u>
(F) Second Final Flow Pressure	<u>200</u> <u>200</u> PSI	(depth)	<u>6300</u>	Straddle	<u>350</u>
(G) Final Shut-In Pressure	<u>232</u> <u>2976</u> PSI	Initial Opening	<u>30</u>	Ext. Packer	<u>✓ 200</u>

AFE	BCP	<input checked="" type="checkbox"/> ACP	FAC	Other	Chem.
LOE	New Add	Replace	Repair	General	<input checked="" type="checkbox"/>
Well Name: <u>Kirton 7-1</u>		Approval Initials: <u>PH</u>		Location: <u>OK TX KS</u>	
Preston Heiskell		806-662-2279		Perf Code: <u>446</u>	
<u>20</u>	-214				

Approved By Preston Heiskell Location 10:00 am Started 11:30 am T-Open 16:30 pm T-Pulled 20:00 T-Out 24:00
 Our Representative [Signature] Sub Total: 2867.50 Std. By 3 150.00 Acc. Chg: 150 Other: _____ Total: \$3167.50



TRILOBITE TESTING, INC.

P.O. Box 362 • Hays, Kansas 67601

FLUID SAMPLER DATA

Ticket No. 24446 Date 07-07-08
 Company Name EOG
 Lease Kinton 7 #1 Test No. #1
 County Stearns Sec. 7 Twp. 35 S Rng. 38 W

SAMPLER RECOVERY

Gas _____ ML
 Oil _____ ML
 Mud 4,000 ML
 Water _____ ML
 Other _____ ML
 Pressure _____ ML
 Total 4,000 ML

PIT MUD ANALYSIS

Chlorides 1100 ppm.
 Resistivity _____ ohms @ _____ F
 Viscosity 47
 Mud Weight 8.9
 Filtrate 7.6
 Other LCM 18#

SAMPLER ANALYSIS

Resistivity _____ ohms @ _____ F
 Chlorides _____ ppm.
 Gravity _____ corrected @60F

PIPE RECOVERY

TOP
 Resistivity _____ ohms @ _____ F
 Chlorides _____ ppm.
MIDDLE
 Resistivity _____ ohms @ _____ F
 Chlorides _____ ppm.
BOTTOM
 Resistivity _____ ohms @ _____ F
 Chlorides _____ ppm.

CHART PAGE

This is a photocopy of the actual AK-1 recorder chart.

